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TITLE : COPPER ALLOY FOR MULTIPOLAR CONNECTOR

ABSTRACT : PURPOSE: To develop a copper alloy having excellent electroconductivity and migration resistance by adding specific amt. of Zn to a phosphor bronze copper alloy for a multipolar connector or furthermore adding specific auxiliary components thereto.

CONSTITUTION: As the titled copper alloy, 0.6–6wt.% Zn or furthermore, as the auxiliary components, ≤0.6wt.% total of one or more kinds among Ni, Co, Fe and Zr are added to the low Sn phosphor bronze consisting of 0.5–2.5wt.% Sn, 0.03–0.35wt.% P and the balance Cu. The copper alloy for a multipolar connector having low Sn content and having excellent strength, electroconductivity and migration resistance can be produced at low cost without impairing the excellent characteristics of the phosphor bronze alloy.

0.6 - 6 Zn

≤0.6 Σ(Ni, Co, Fe, Zr)

0.5 - 2.5 Sn

0.03 - 0.35 P

O

C

S

Fe

Cu